GENERAL LBNL POWER FAILURE RESPONSE EMERGENCY PROCEDURE

APPLICATION

Response to a Hill-wide or isolated power outage. Emergency generators provide power for vital research and facilities equipment until PG&E power is restored. This procedure applies to Facilities electricians and plant maintenance technicians (PMTs).

NOTIFICATION LIST

Outage During Regular Working Hours (7:00 am - 3:30 p.m. Monday — Friday)

A power outage occurring during normal business hours can be reported to the Work Request Center (x6274) or to any of the following personnel in the Electrical Shop (x6023):

- Jim Murphy, Supervisor, x4175
- Bill Mattson, x5974
- Andy Tyrrell, x4899

Outage After Hours

A power outage occurring after regular working hours can be reported to the Plant Operations Office, x5481. The Plant Operations office will call one or more of the following staff electricians:

- Bob Berninzoni, (925) 833-7225
- Jim Murphy, Maintenance Supervisor, (925) 672-7036
- Andrew Tyrrell, Electrician Lead, (510) 376-9167
- Bill Mattson, Construction Coordinator, (510) 785-5230

If there is no response from any of the above, one of the following electrical engineers should be notified:

- Larry Domansky, (707) 447-1348
- Virgil Alonzo, (510) 232-4521

WORK STEPS

Preliminary Assessment of Outage and Response

The Electrical Shop Supervisor/Lead or Maintenance Supervisor shall:

- Identify affected area/extent of outage.
- If the outage is confined to one building or a small area, refer to the power outage procedure for that building. (See next paragraph, "Power Outage Response by Building.")
- 3. If the outage is extensive or Lab-wide, establish priorities for restoring power to the Lab.

Power Outage Response by Building

- This work step lists (by building number) buildings, their associated emergency generators, the systems powered by the generators, and the required actions, if any. No priority is indicated by the list.
- If a building is not on this list, it is because there is no emergency generator at that location and no specific actions are required.

Bldg	Emergency Generator	Actions
2	02-EG-068	Check for automatic start.
	Roof VFDs.	Check for passengers trapped in the elevator.
	Emergency lighting.	IF needed – call Amtech 1-800-310-1397.
		See EMRG-009 (2/50/54/70/70A area) for outage procedure & power check after restoration.
6	37-EG-073	Check for automatic start.
		Check for passengers trapped in elevator.
		IF needed - call Amtech 1-800-310-1397.
10A	10A-EG-080	Check for automatic start.
	ICS backup power.	
26	48-EG-100	Check for automatic start.
	Backup power for medical equipment.	See EMRG-056 for outage procedure & power check after restoration.
28	48-EG-100	Check for automatic start.
	Backup power for radio communications.	
34	37-EG-073	Check for automatic start.
	Backup power for lighting.	
37	37-EG-073	See EMRG-003 for outage procedure (2-person procedure).
	Backup power for lighting	
43	43-EG-072	Check for automatic start.
	Backup air compressor	See EMRG-006 for outage procedure.
	power.	See EMRG-003 for power check after restoration (2-person procedure).
48	48-EG-100	Check for automatic start.
		See EMRG-056 for outage procedure.
50		Check for passengers trapped in elevator.
		IF needed – call Amtech 1-800-310-1397.
		See EMRG-009 for outage procedure & power check after restoration.
50A	50A-EG-101	Check for automatic start. (ICS Node 1 is in Bldg 50A.)
	Emergency power for	Check for passengers trapped in the elevator.
	ICS Node 1	IF needed - call Amtech 1-800-310-1397.
		See EMRG-009 for outage procedure & power check after restoration
50B	50B-EG-095	Check for automatic start.
	Power for emergency	Check for passengers trapped in the elevator.
	lighting in stairwells,	IF needed - call Amtech 1-800-310-1397.
	computer rooms, ESNet areas.	See EMRG-009 for outage procedure & power check after restoration
50C		No action is required.
		See EMRG-009 for outage procedure & power check after restoration
50D		No action is required, building is seismically unsafe, do not enter.
50E		Check for passengers trapped in handicap lift.
		See EMRG-009 for outage procedure & power check after restoration
		Reset AHU's (heating/cooling) when normal power has been restored

Bldg	Emergency Generator	Actions	
50F	2.8	Check for passengers trapped in handicap lift. See EMRG-009 for outage procedure & power check after restoration. Reset AHU's (heating/cooling) when normal power has been restored.	
54		Shut off plant equipment & monitor refrigerators. See EMRG-009 for outage procedure. Barton Security is responsible to check refrigerators per EMRG-015 See EMRG-009 for power check after restoration.	
55/56	55-EG-069 Backup power for research equipment.	Check for automatic start. Check for passengers trapped in elevator. IF needed – call Amtech 1-800-310-1397.	
62	62-EG-102 Backup power for fume hoods & emergency lights.	Check for automatic start. Check for passengers trapped in the elevator. IF needed – call Amtech 1-800-310-1397.	
62B	62B-EG-081 Backup ICS power.	Check for automatic start.	
66	66-EG-109 Backup power for fume hoods & emergency lights.	Check for automatic start. Check for passengers trapped in the elevator. IF needed – call Amtech 1-800-310-1397.	
67	67-EG-110 Backup power for fume hoods & emergency lights.	Check for automatic start. Check for passengers trapped in the elevator. IF needed call OTIS – 1-800-233-6847 Bldg. SK448837.	
70	70-EG-106 Emergency power for MCC Boiler Room, MCC Penthouse, emergency power & lighting.	Automatic start. Check elevators & handicap lift at Bldg 54 for trapped passengers. IF needed – call Amtech 1-800-310-1397. See EMRG-009 for outage procedure & power check after restoration	
70A	70A-EG-017 Emergency power for equipment on emergency circuits only; hoods, glove boxes, all important equipment.	Check for automatic start. Check for passengers trapped in the elevator. IF needed – call Amtech 1-800-310-1397. See EMRG-009 for outage procedure & power check after restoration.	
72	72-EG-098	Check for automatic start.	
72C	EL-1-72C	Check for passengers trapped in the elevator. IF needed – call Amtech 1-800-310-1397.	
74	74-EG-061 Backup power for research equipment & HVAC.	Check for automatic start. Check for passengers trapped in the elevators. IF needed – call Amtech 1-800-310-1397. See EMRG-016 for outage procedure.	
75	75-EG-089	No action — do not enter until EH&S clears it.	
76	48-EG-100 Emergency lighting, EMCS & SCADA.	48-EG-100 Check for automatic start. Emergency lighting, See EMRG-056 for outage procedure & power check after restorations.	

Bldg	Emergency Generator	Actions	
77	77-EG-094 Emergency lighting.	Check for automatic start.	
83	74-EG-061 Backup power to research equipment.		
84/84B	84B-EG-099	Check for automatic start. Check for passengers trapped in elevators EL-1-84 & EL-2-84. IF needed – call Amtech 1-800-310-1397.	
85/86	85-EG-096	Check for passengers trapped in elevators EL-1-84 & EL-2-84. IF needed – call Amtech 1-800-310-1397. Check for automatic start. Check for passengers trapped in elevator EL-1-85 IF needed – call Amtech 1-800-310-1397.	
88	88-EG-090	Check for automatic start. Check KC-4-88 for automatic start. See EMRG-060 & EMRG-063 for outage procedure. See EMRG-061 for power check after restoration.	
90	55-EG-069	Check for passengers trapped in the elevator. IF needed – call Amtech 1-800-310-1397.	

REFERENCES

None.

RESPONSIBILITIES & CONTROLS

Completion of the following signature lines constitutes approval of this procedure:

REV NO.	SME	REVIEWED BY	APPROVED BY / DATE	REVISION DATE
3	Murphy Elec Shop Sker	Chief Elec Eng	Plant Ops Mor	6/8/07
-	T. Murphy (Print Name)		Robert ABBR WWZGZ	EMRG-045